MCH
Installation steps

June 2021

(Updated 17.06.2021)

WEATHER CLIMATE WATER
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# Configuration of the computers & Installation environment

- Login with full administrator rights
- Check if your computer has a 32 or 64-bit processor
- Create shortcuts to ODBC, services and control panel
- Set regional settings, decimals should be defined with dots (.)
- Turn Wi-Fi off or disconnect the computer from internet
- Turn Antivirus off
- Disable Firewall

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Installation of MCH
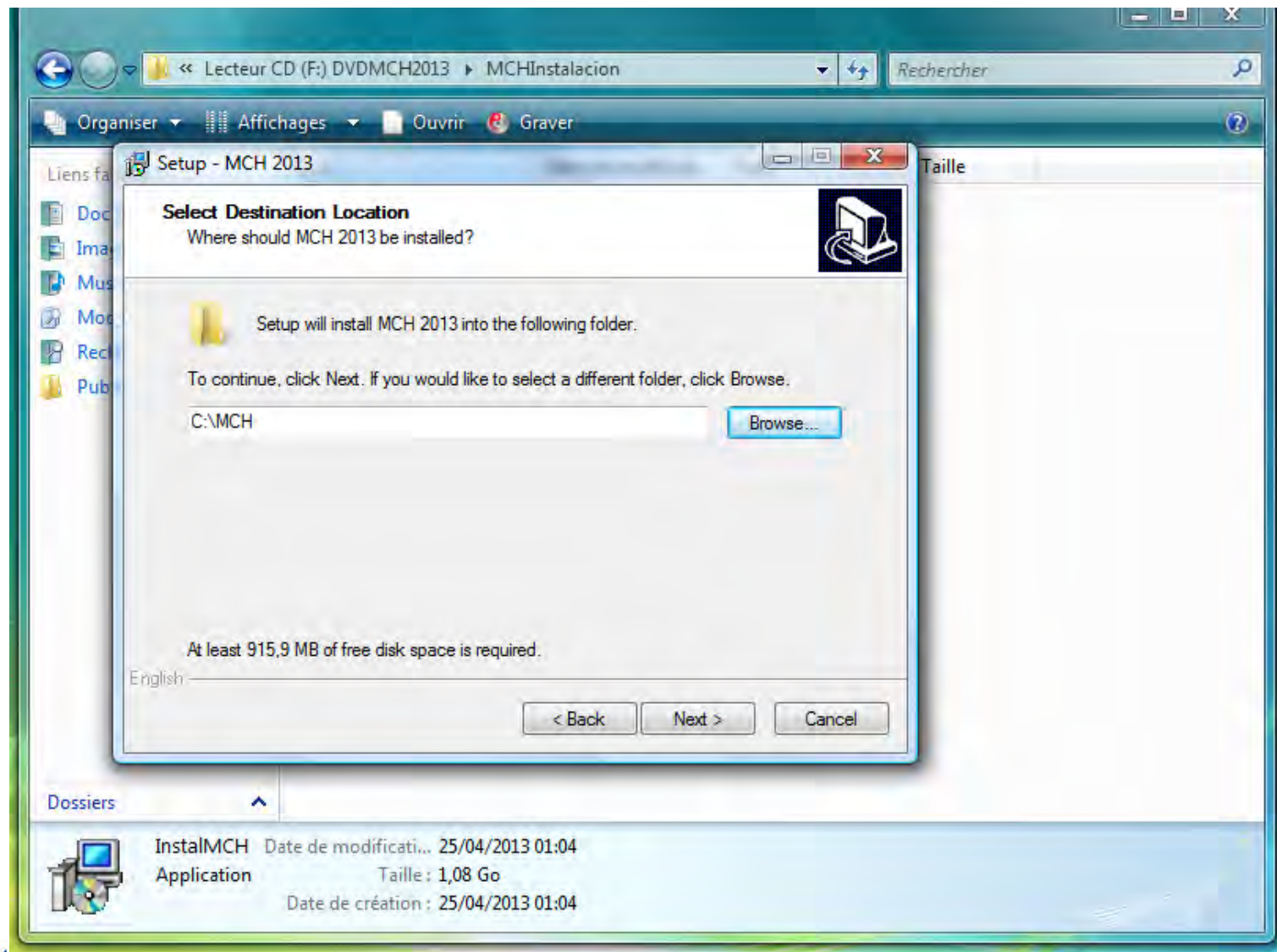
- Open MCHInstalacion → InstalMCH.exe
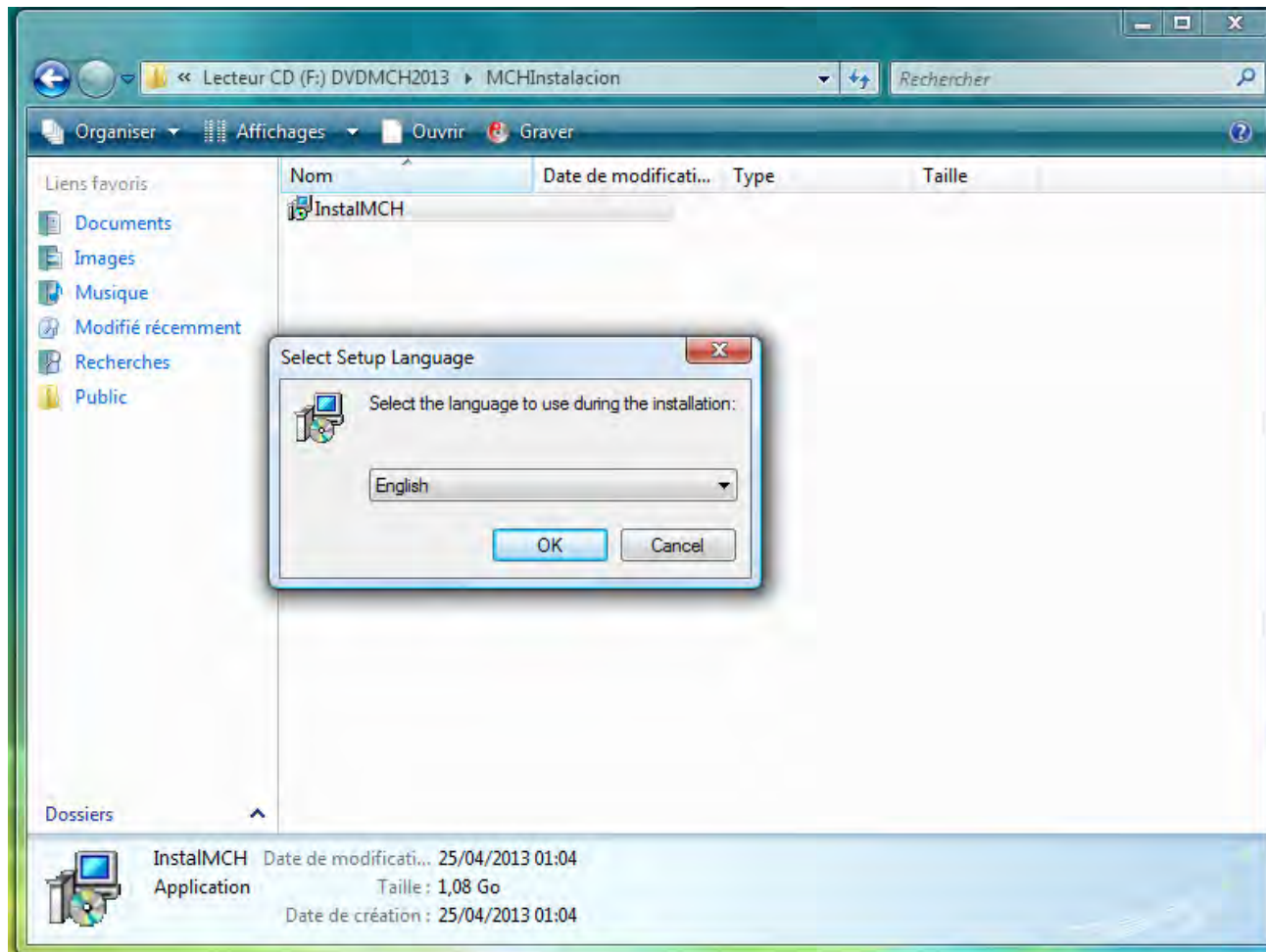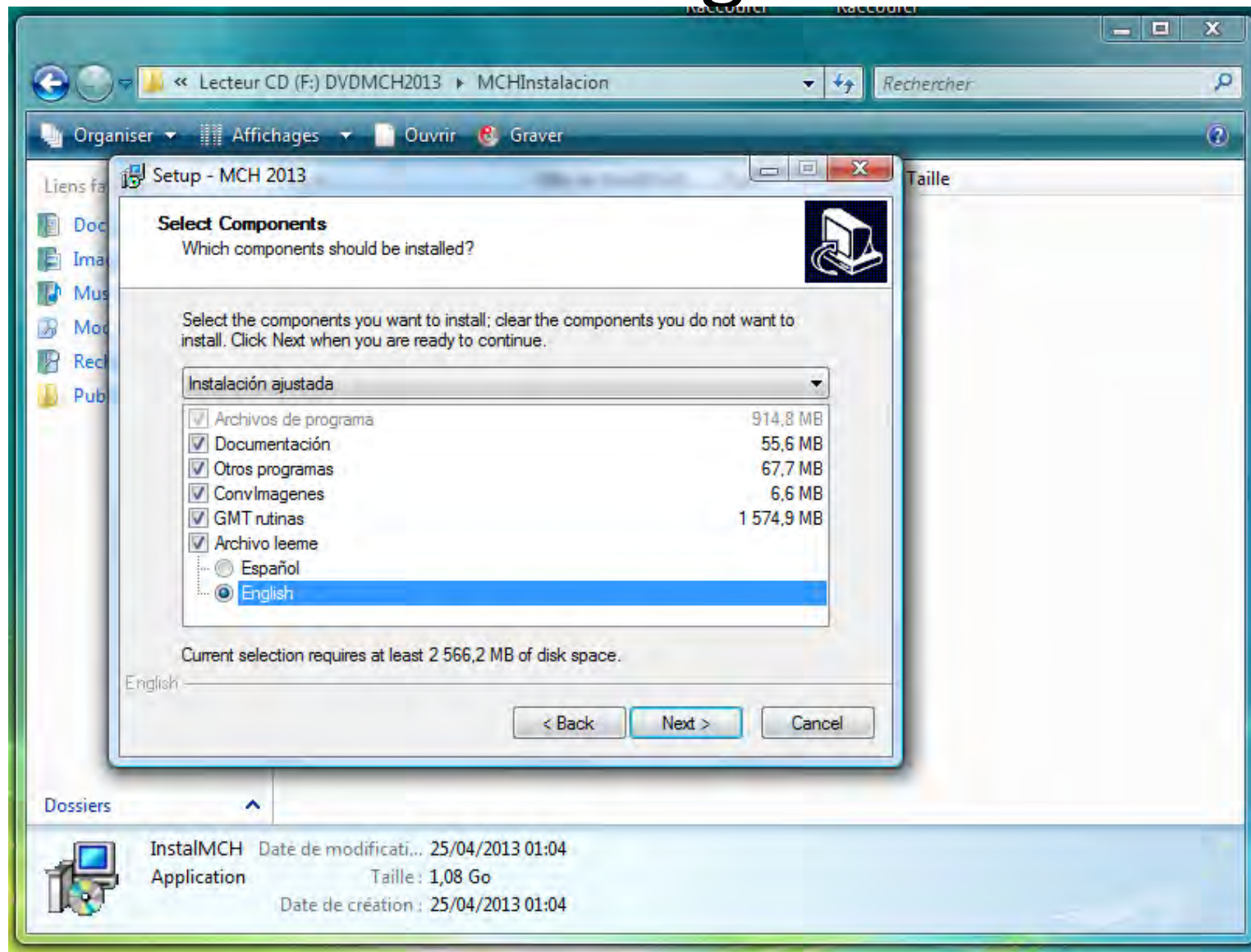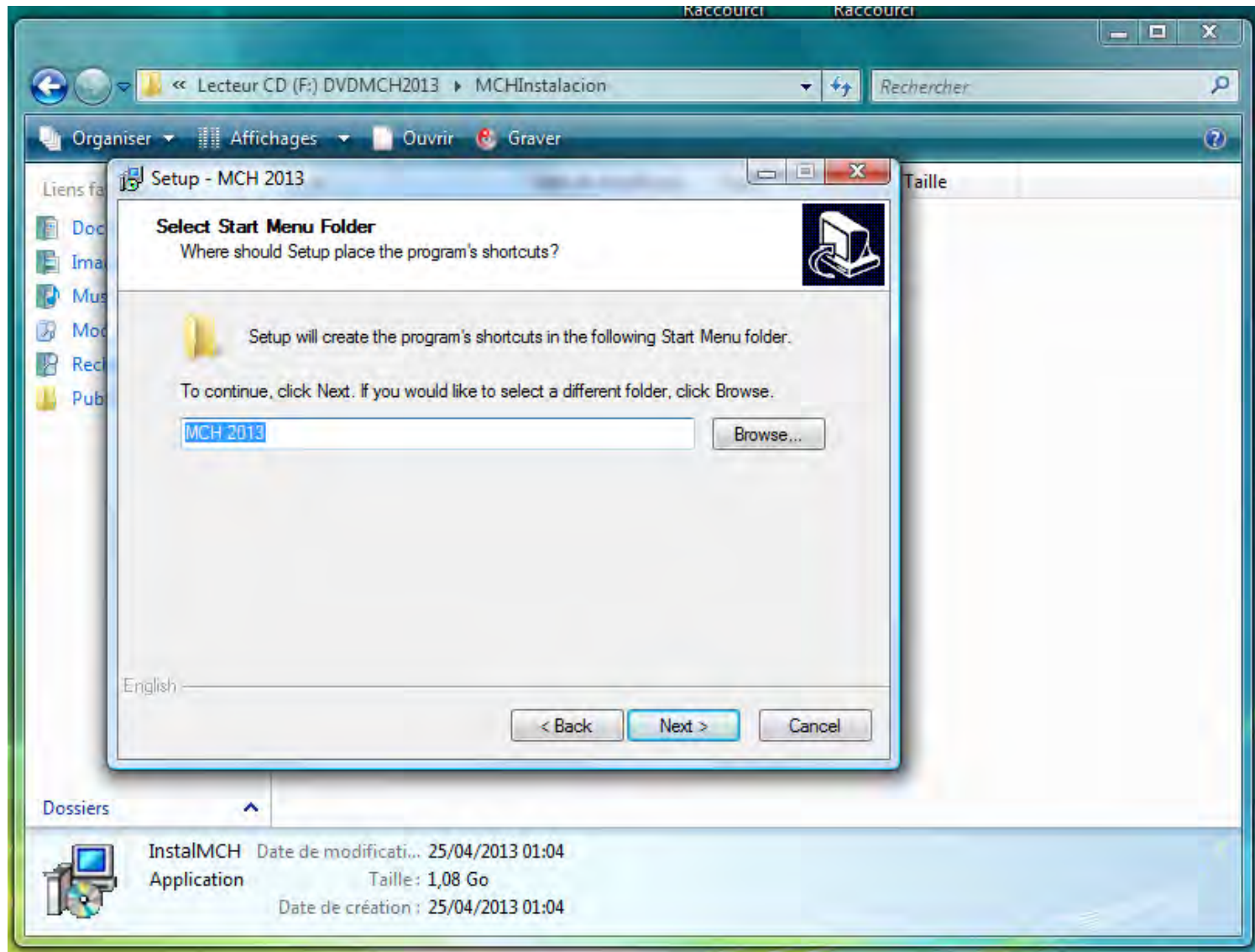
Installation of MCH
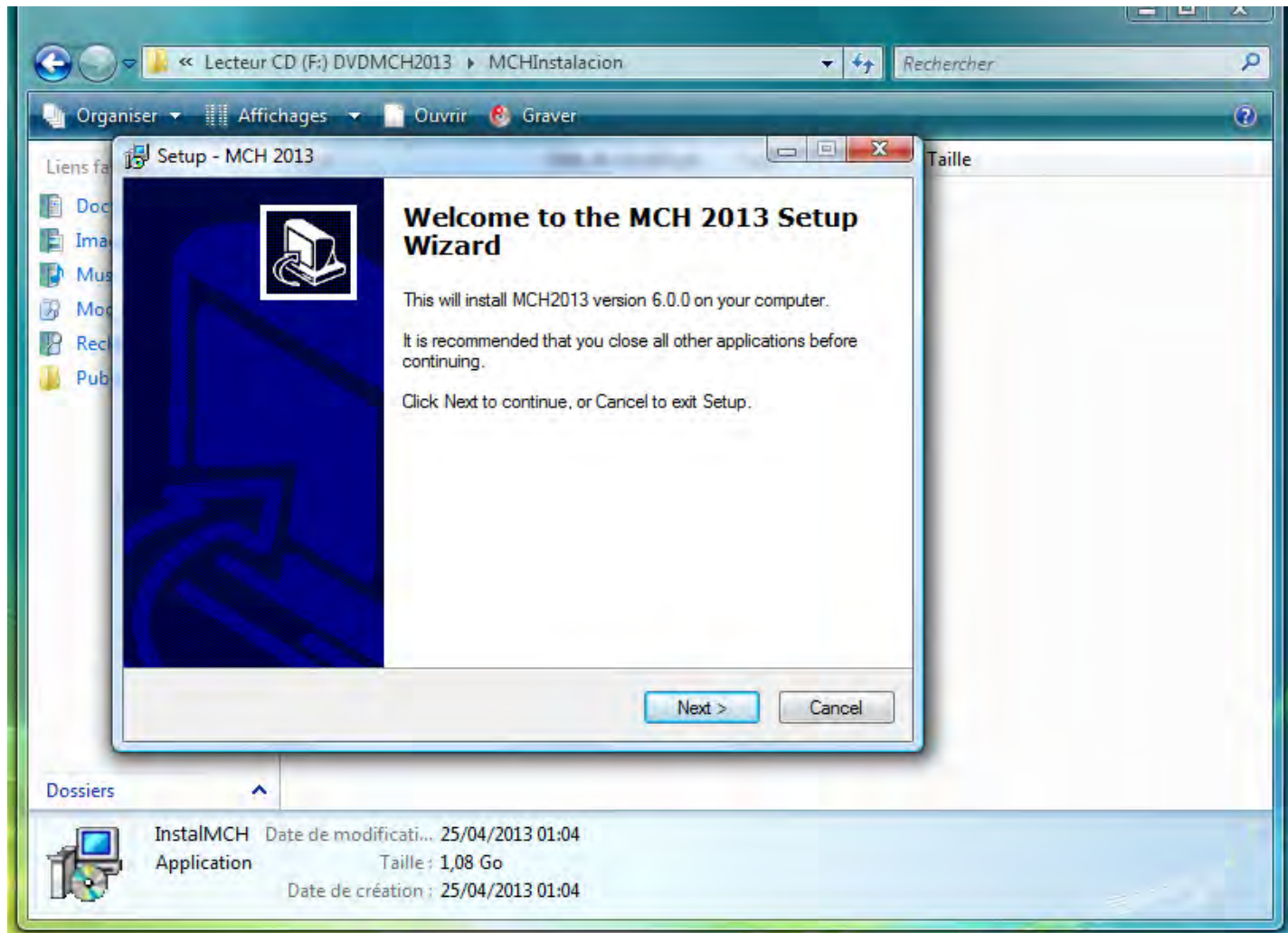
- Save in the root, to avoid long path
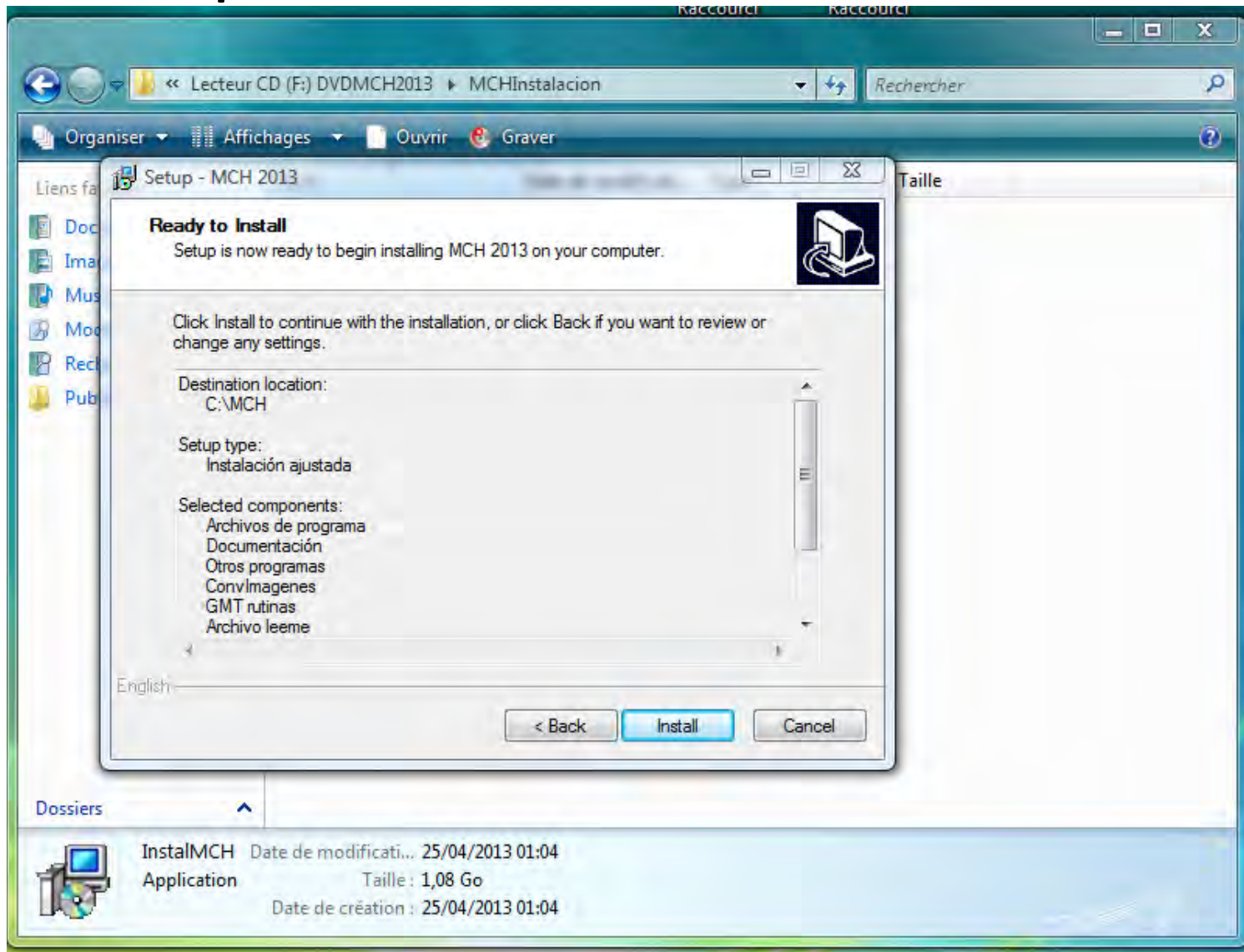- No space in the name of the folder

Select English

Rename the shortcut if needed

Check if all parameters are OK and click install

Finish installation
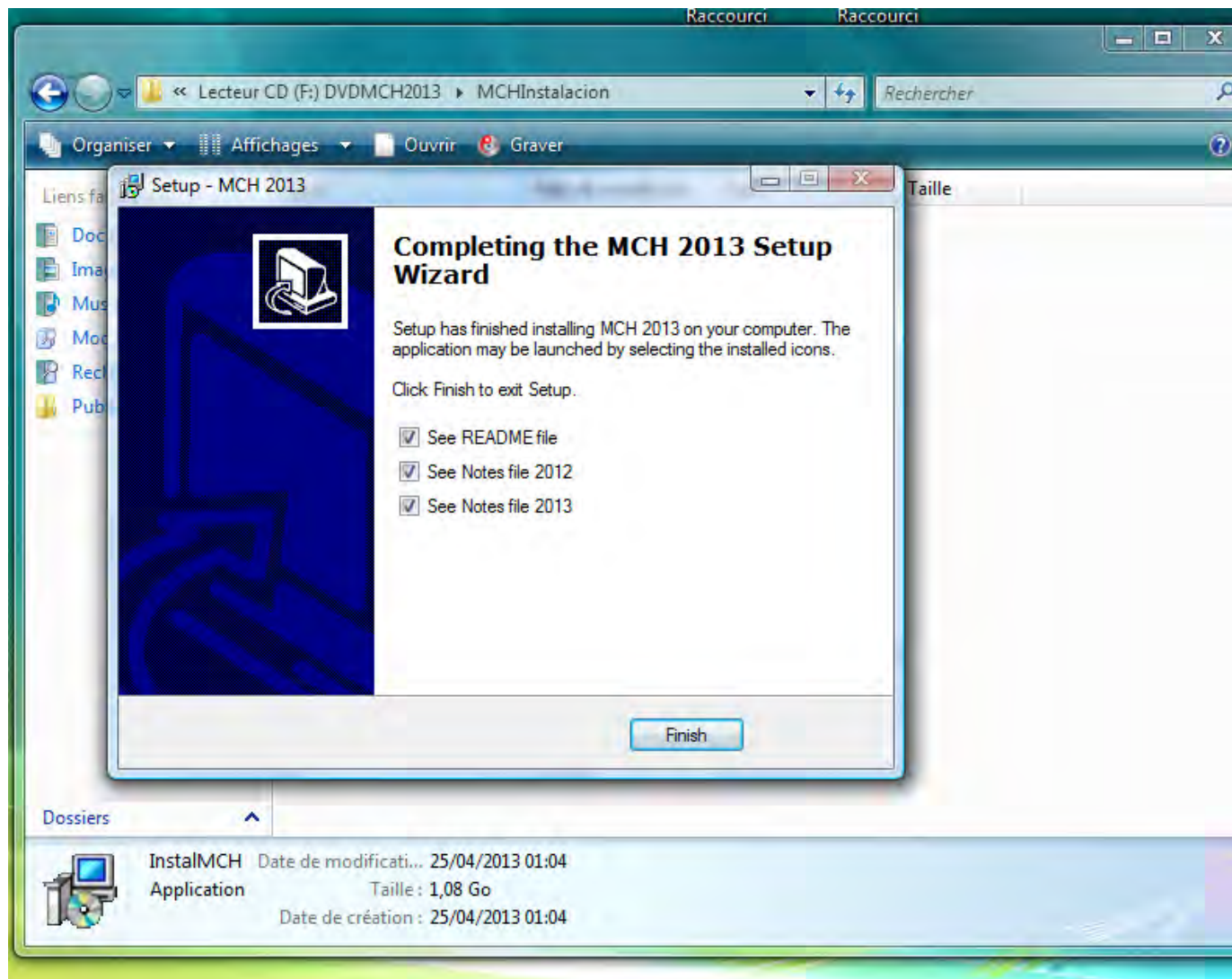
Installation of additional software

Install gostscript.ps – 32 or 64 bits
Leave default settings (install fonts ticked)
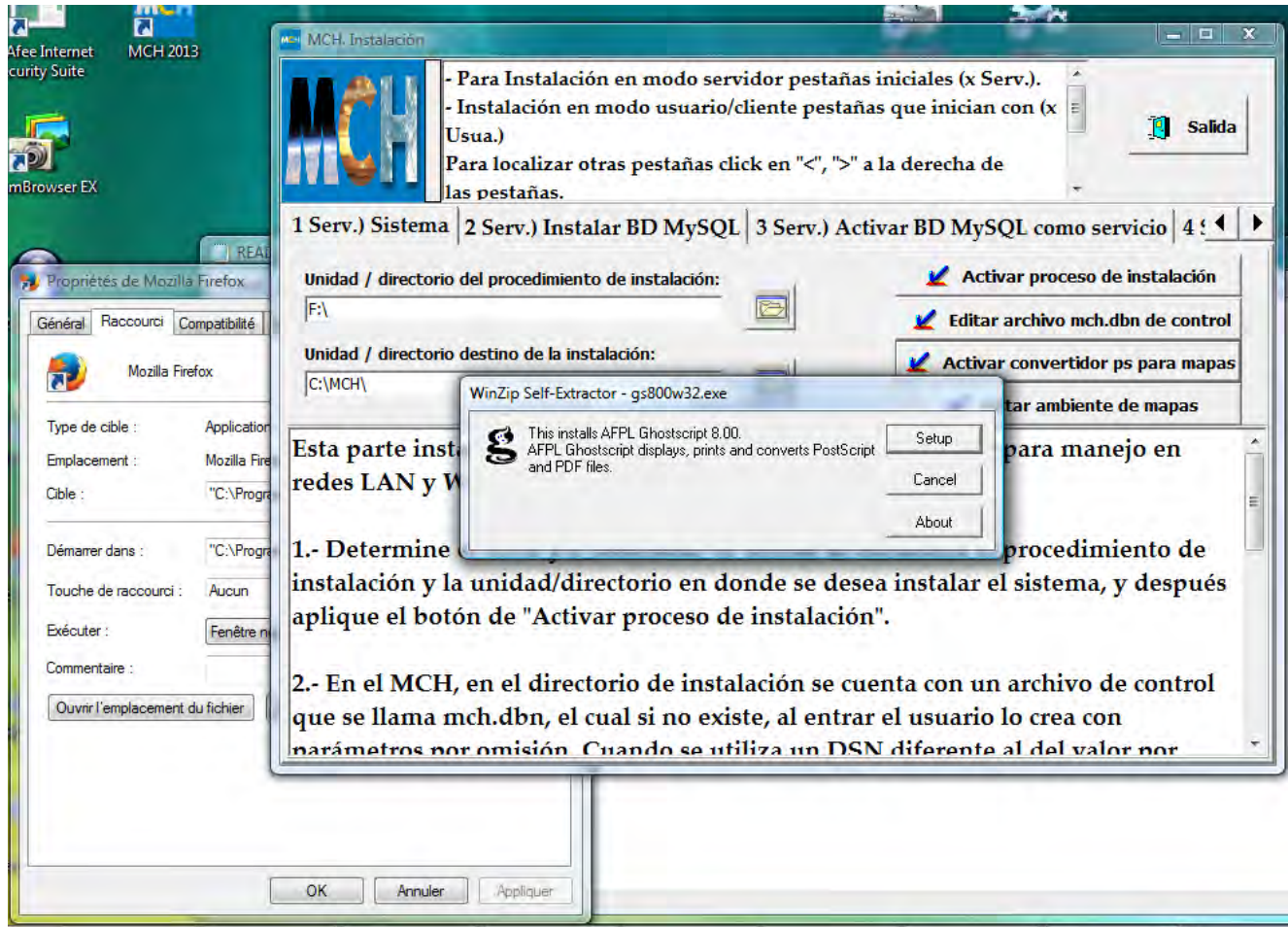
Install RunTimePlus (RunTimePlus /dBasePlusRuntimeEngine1703_EN.exe)

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If needed edit gmtenv.bat (C:/MCH/gmtenv.bat), needed for the map environment
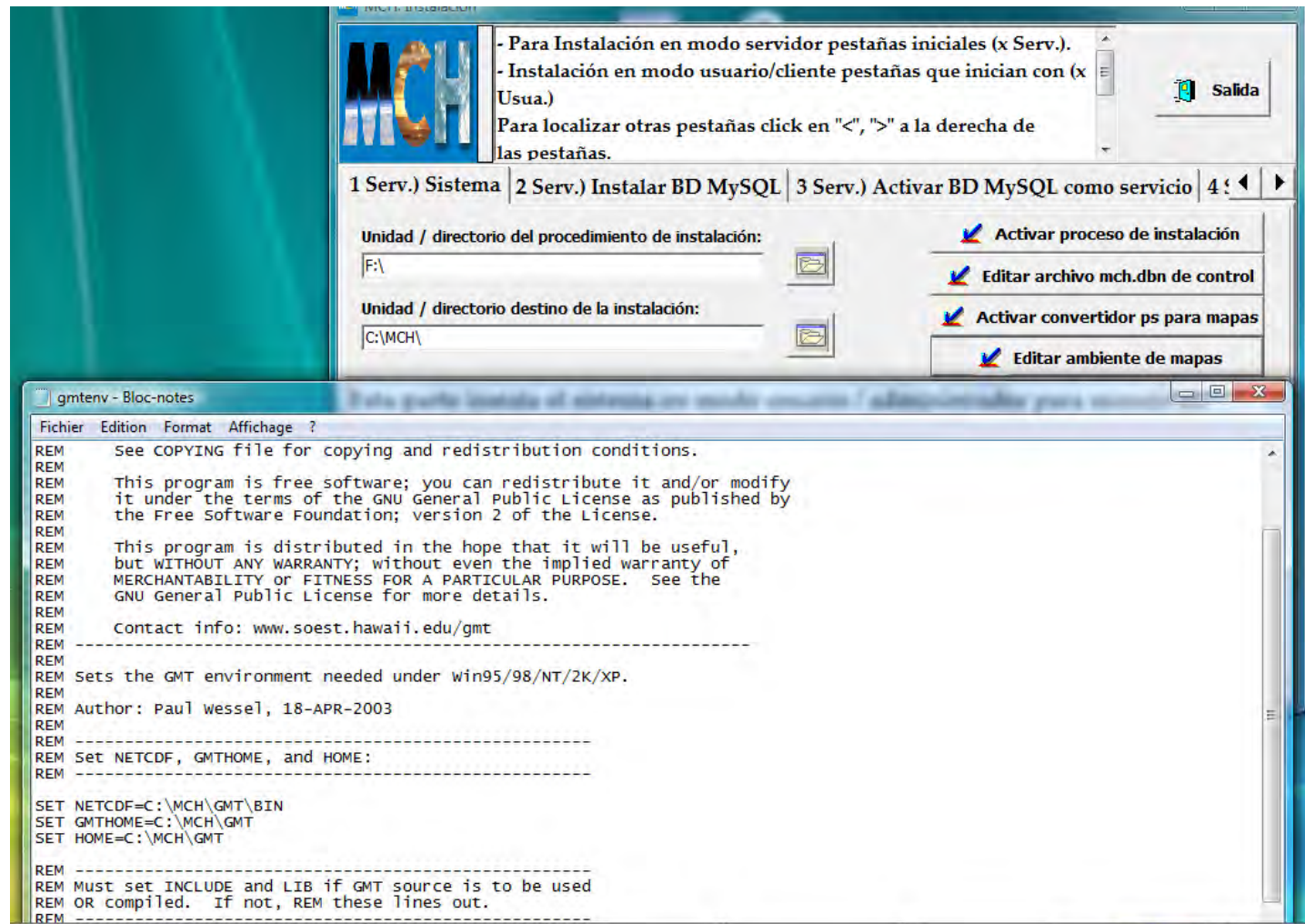
Installation of MySQL Server 5

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Execute: SetupMySQL5_0_51.exe
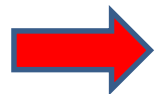
➡️ Click Next
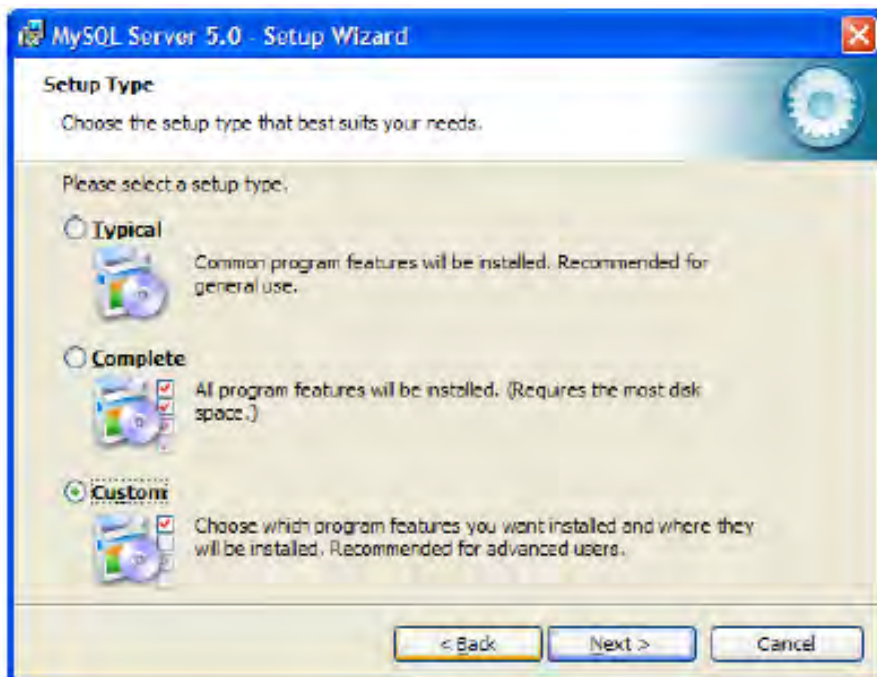
- Select Custom
- Next

- Select Change…
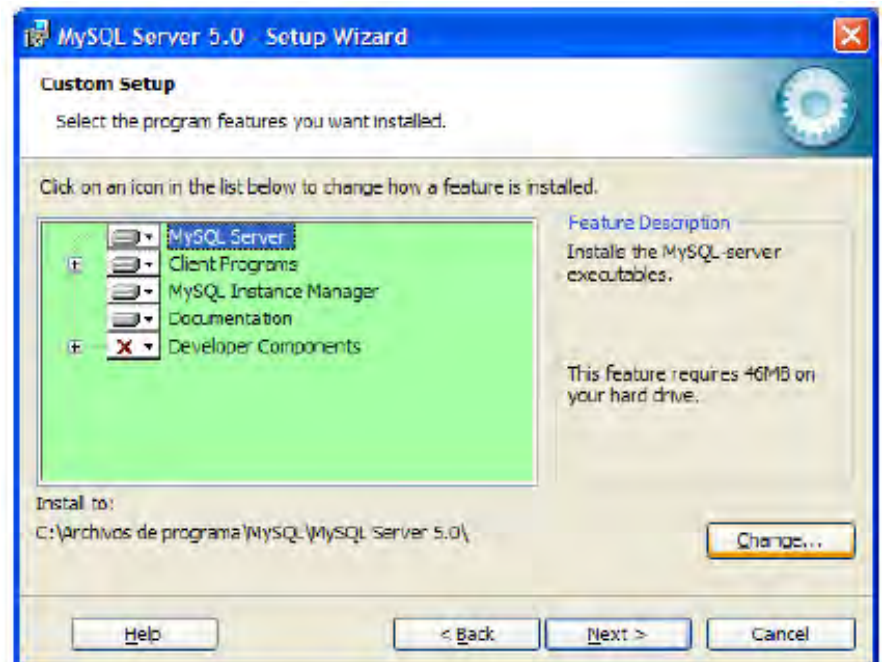
- Change the path to: **C:\MySQL5**

- Click Next

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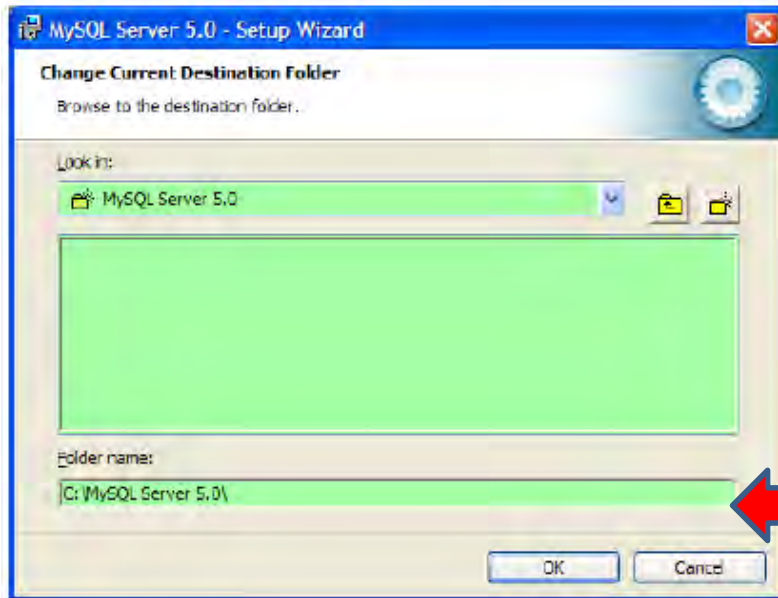
Click Install
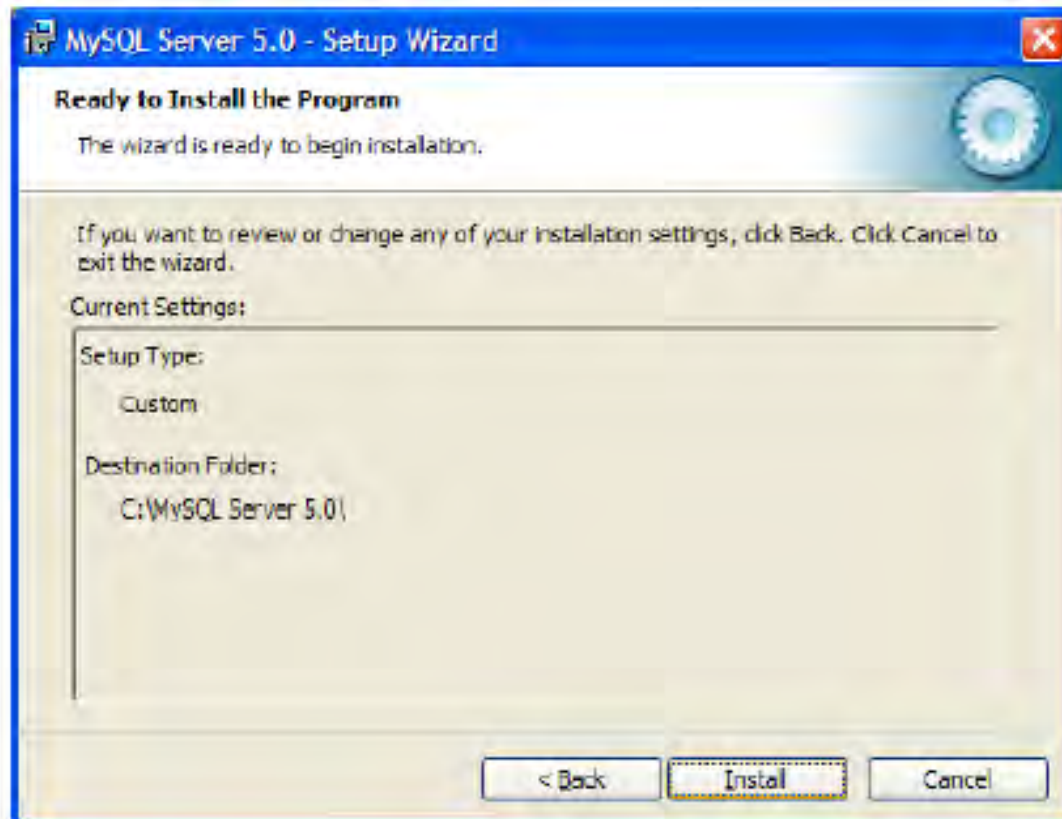
MySQL Server

- Tick Configure MySQL Server now
- Click Finish

- Click Next

- Click Next

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Select Detailed Configuration

- Click Next

Select Server Machine

■ Click Next

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- Select Non-Transactional Database
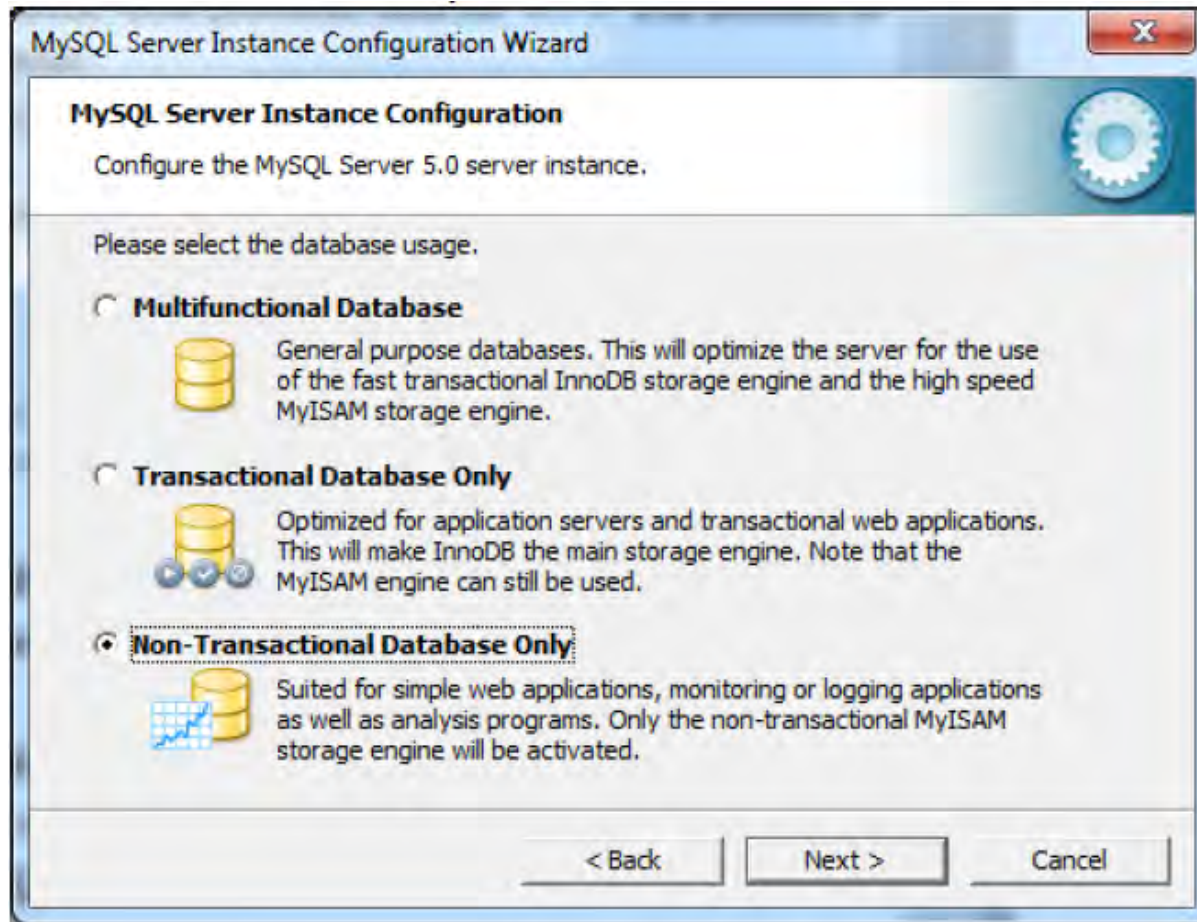
- Click Next

Note: You can also select Multifunctional Database if you are already using a Transactional Database on your computer

Check installation path

- Click Next

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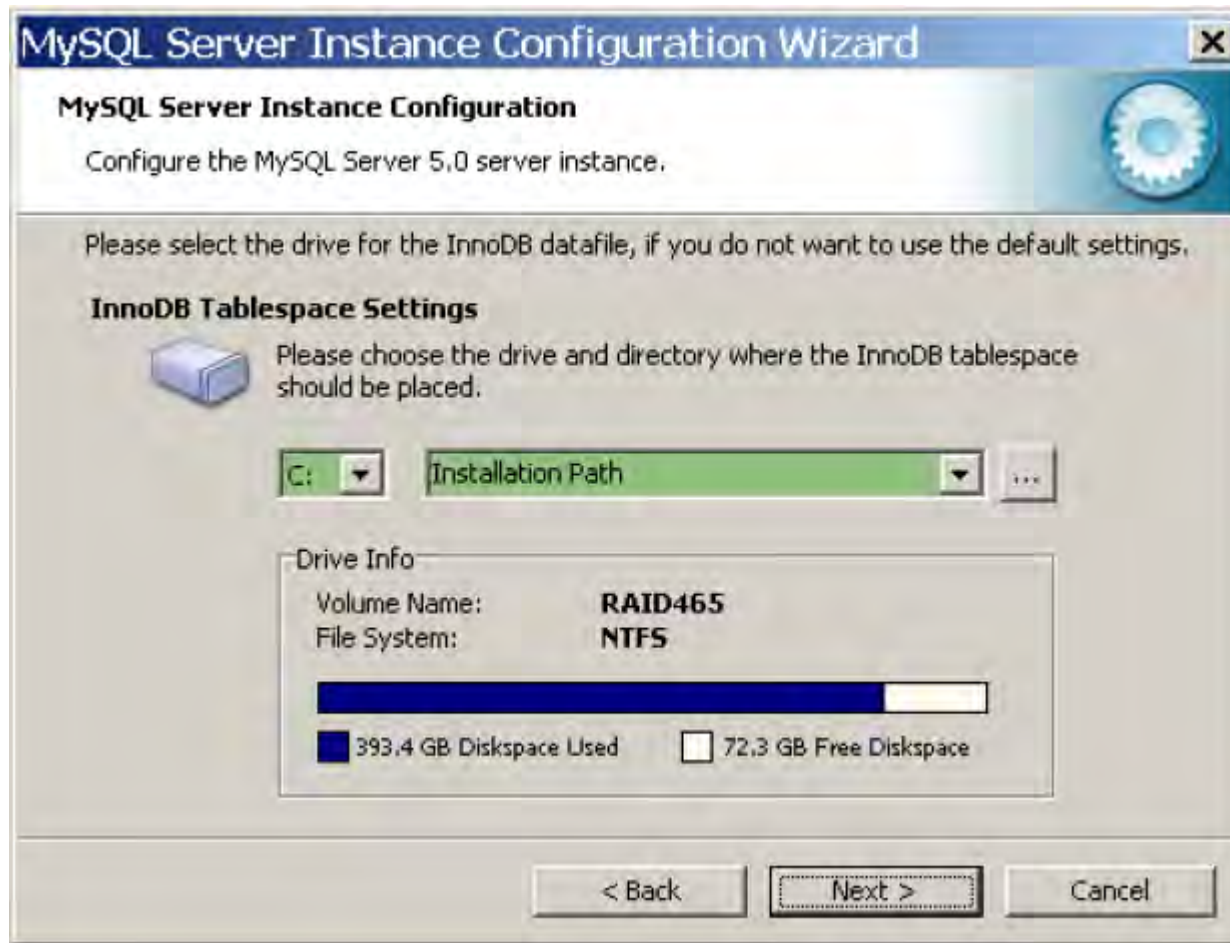
Select number of users

- Click Next

Networking options

- Tick Enable TCP/IP Networking
- Select port 3306
- Tick Add firewall exception
- Untick Enable Strict Mode
- Click Next

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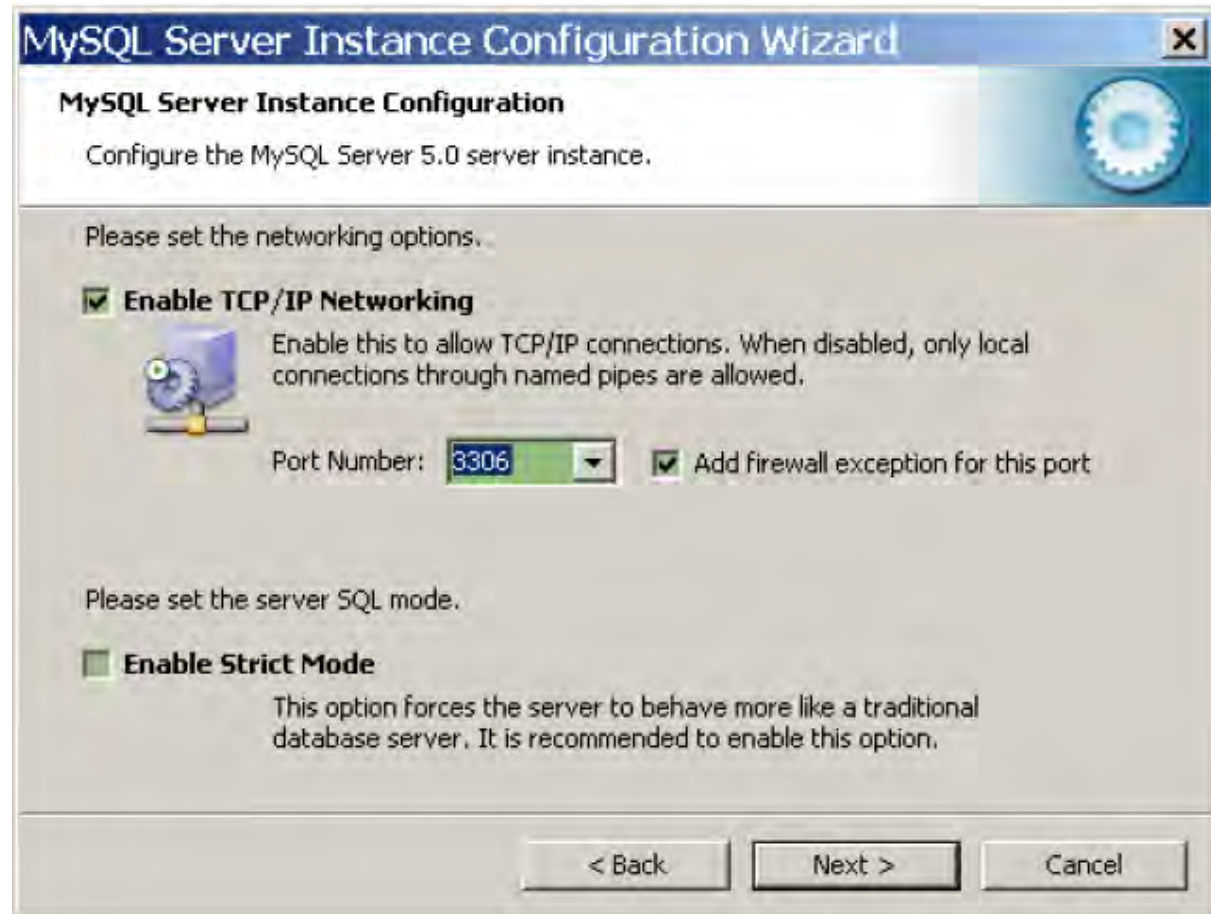
- Select Standard Character Set

- Click Next

- Tick Install as Windows Service
- Select MySQL5
- Tick Launch the MySQL server automatically
- Tick include Bin
- Click Next

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MySQL Admin password

- Tick Modify Security Settings

- Create a password
- **Write it down !!!**
- Tick Enable root access from remote machines
- Click Next

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Click Execute

MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.0 server instance.

Ready to execute ...

○ Prepare configuration

○ Write configuration file

○ Start service

○ Apply security settings

Please press [Execute] to start the configuration.

[< Back] [Execute] [Cancel]

MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.0 server instance.

Processing configuration ...

✓ Prepare configuration

✓ Write configuration file   (C:\MySQL_Server_5_0\my.ini)

✓ Start service

✓ Apply security settings

Configuration file created.
Windows service MySQL5 installed.
Service started successfully.
Security settings applied.

Press [Finish] to close the Wizard.

[< Back] [Finish] [Cancel]

Click Finish

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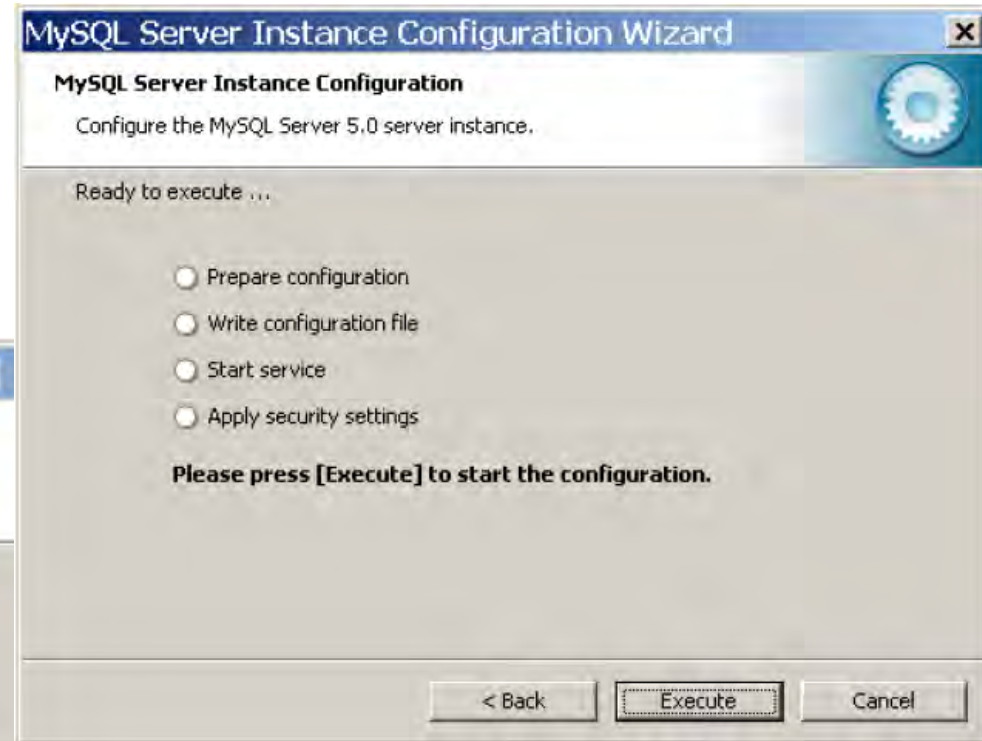
- Check that the service is properly running

- If not check firewall exceptions

- Check that password is ok: Programmes → MySQL →MySQL Server 5 → MySQL Command Line Client

```
MySQL Command Line Client                    _ □ ×
Enter password: _
```

- Type in your Password → Click Enter

- Type in Exit → Click Enter

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MCH
MySQL Server 5 Tools

Execute: mysql-gui-tools-5.0-r12-win32.msi

- Click Next

- Select the folder tools within the folder where MySQL Server 5 has been installed
- If it does not exist create a new folder and rename it « tools »
- Click OK

MySQL Tools for 5.0 - Setup Wizard

Change Current Destination Folder

Browse to the destination folder.

Look in:

tools

- bin
- data
- Docs
- share
- tools

Folder name:

C:\MySQL5\tools\

OK   Cancel
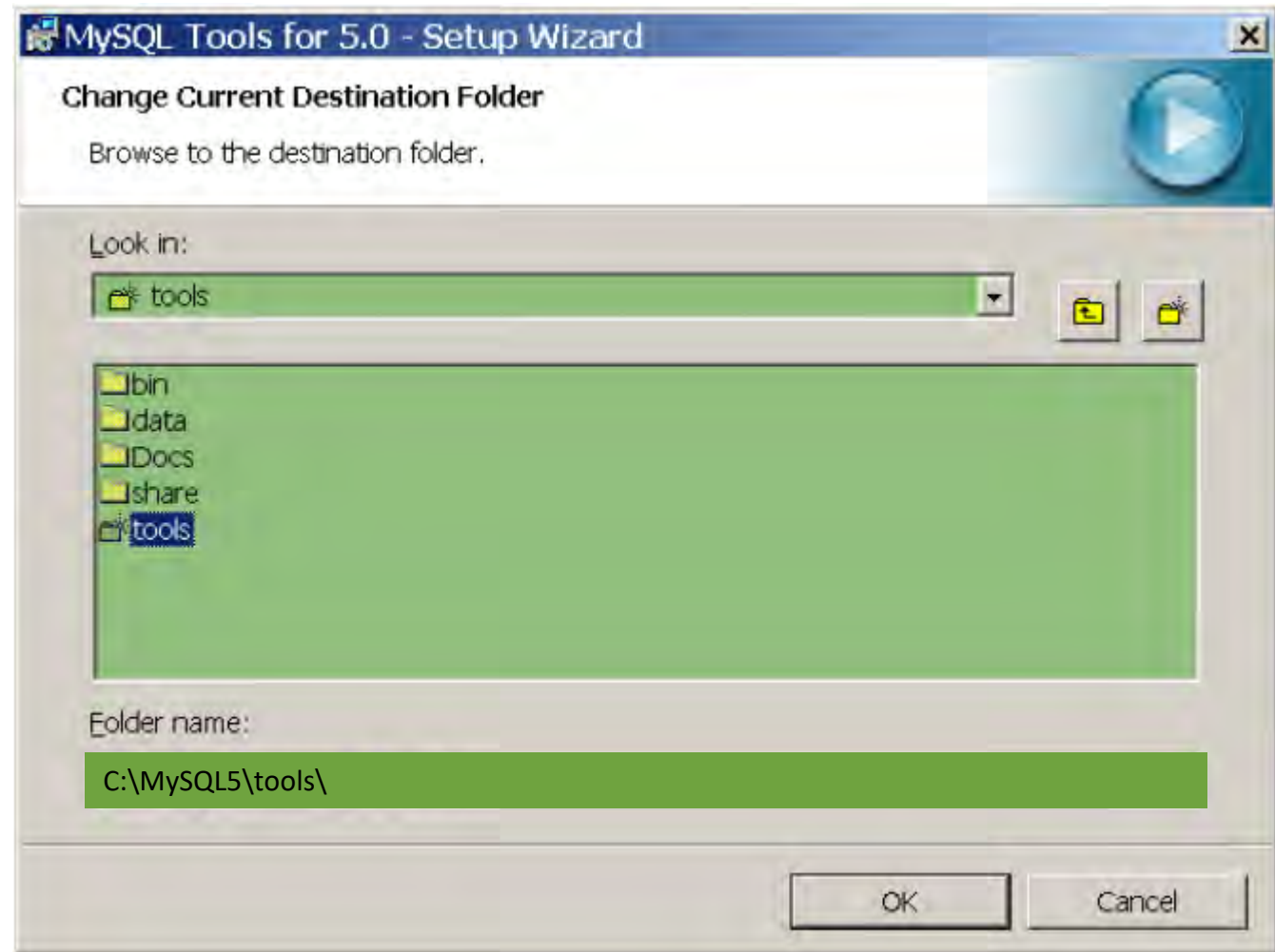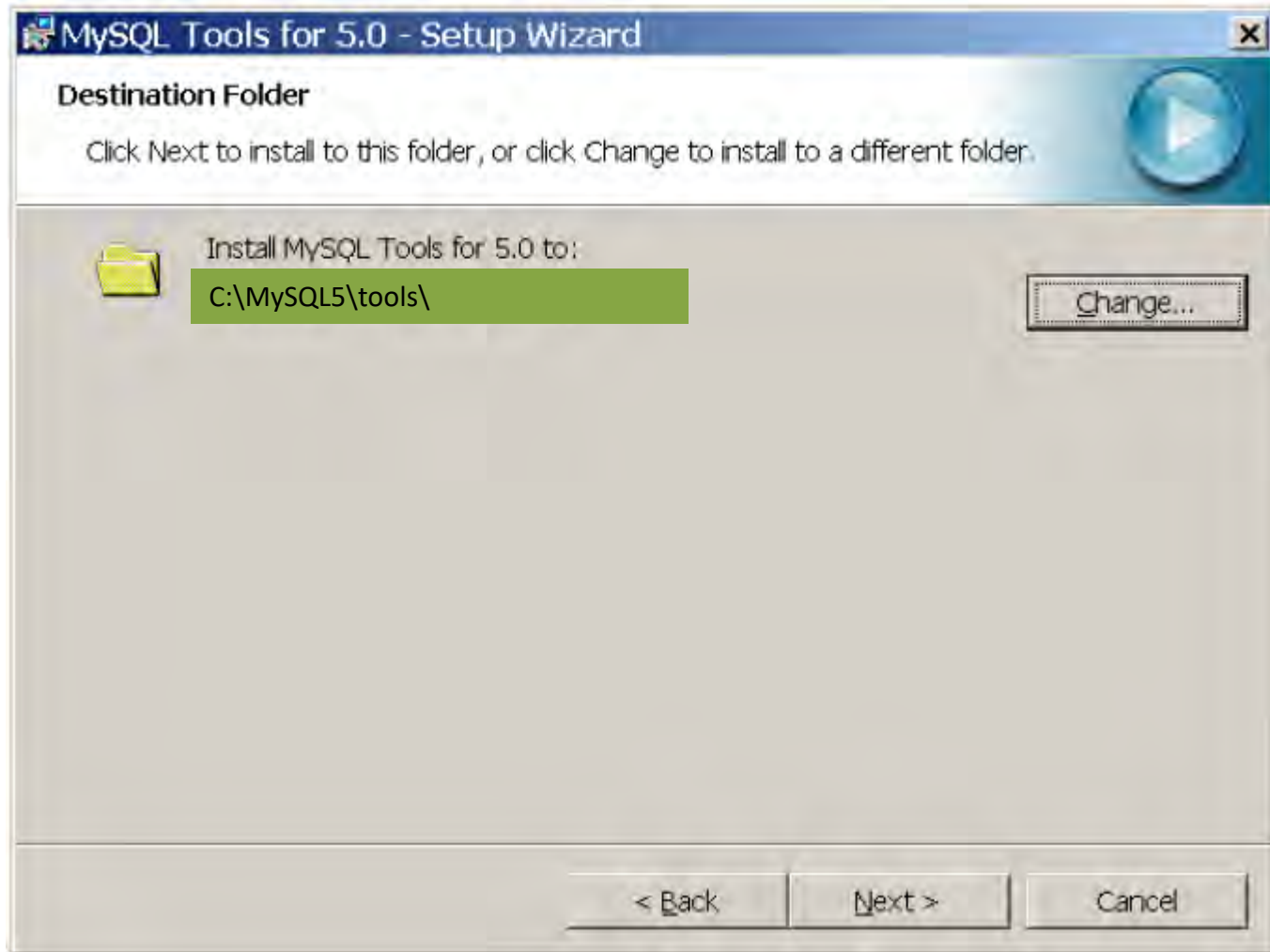
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Click Next

- Select Complete
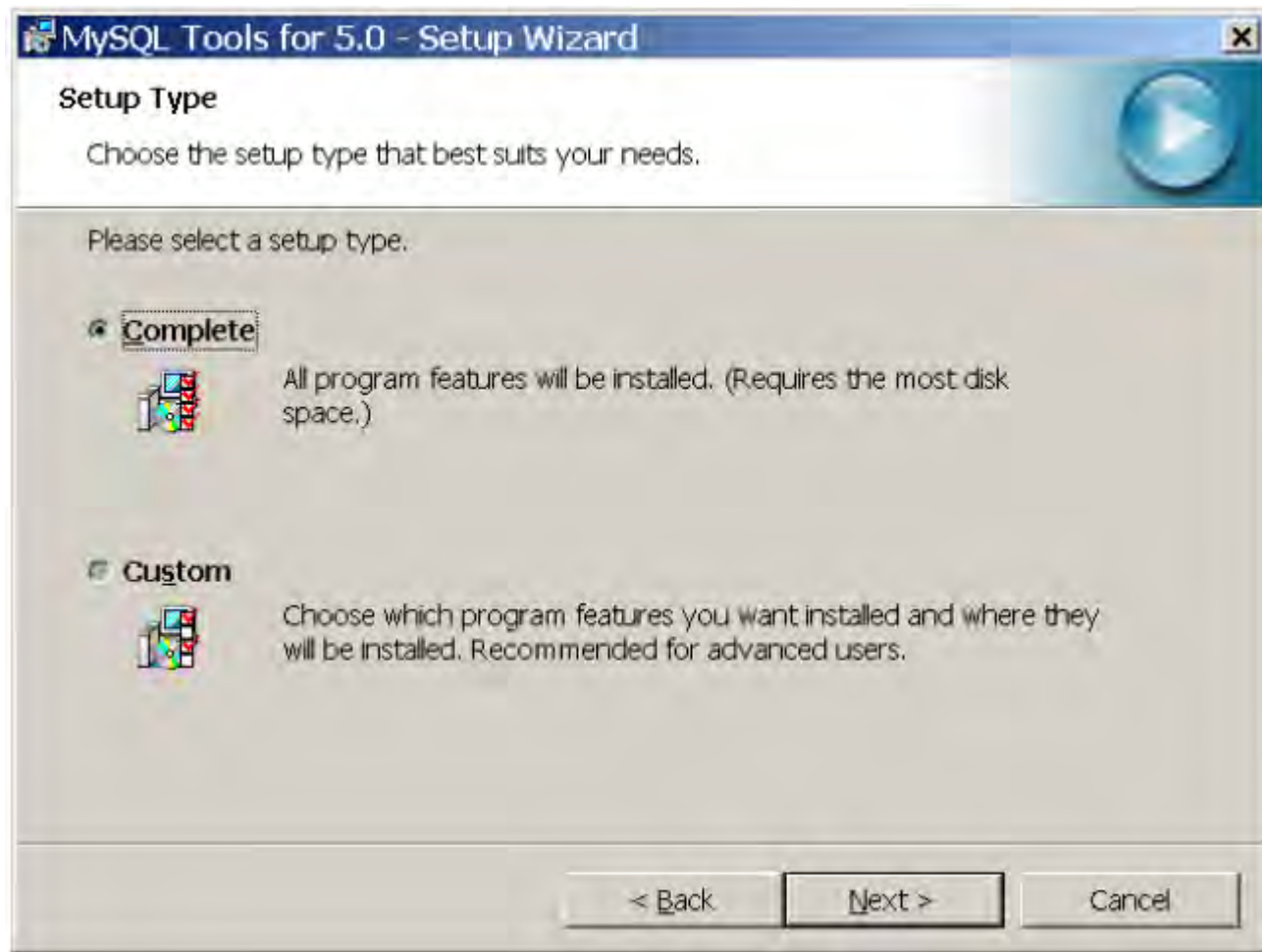
- Click Next

Click Install
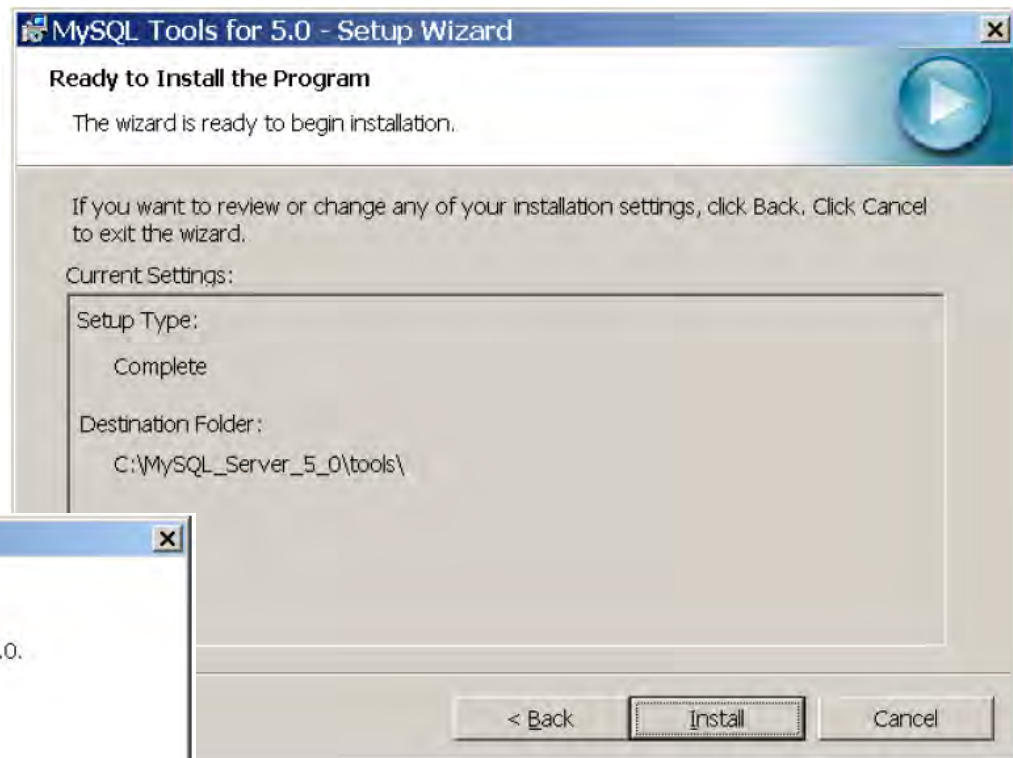
MySQL Tools for 5.0 - Setup Wizard

Ready to Install the Program

The wizard is ready to begin installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Current Settings:

Setup Type:

Complete

Destination Folder:

C:\MySQL_Server_5_0\tools\

[< Back] [Install] [Cancel]

MySQL Tools for 5.0 - Setup Wizard

Wizard Completed

Setup has finished installing MySQL Tools for 5.0.

MySQL

[< Back] [Finish] [Cancel]

Click Finish

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Installation of the ODBC connector

Installation of the ODBC connector

- Select the ODBC driver which is compatible to your system (32 or 64 bits)*

- Click Next

MySQL Connector/ODBC 3.51 - Setup Wizard

Welcome to the Setup Wizard for MySQL Connector/ODBC 3.51

The Setup Wizard will install MySQL Connector/ODBC 3.51 release 3.51.21 on your computer. To continue, click Next.

WARNING: This program is protected by copyright law.

* Select the latest version in the mysql folder

- Select Typical
- Click Next

Click Install

MySQL Connector/ODBC 3.51 - Setup Wizard

Ready to Install the Program

The wizard is ready to begin installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Current Settings:

Setup Type:

Typical

Destination Folder:

< Back | Install | Cancel

MySQL Connector/ODBC 3.51 - Setup Wizard

Wizard Completed

Setup has finished installing MySQL Connector/ODBC 3.51. Click Finish to exit the wizard.

MySQL

< Back | Finish | Cancel

Click Finish

Connect MCH to MySQL

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Connect MCH to MySQL

- Upload the databases mcheng and capttemp to C:\MySQL5\data

- Rename mcheng to mch

- Run ODBC Data Source as Administrator (control panel → Administrative Tools → Data Sources (ODBC)

Or directly under:

- For 32 bits: C:\Windows\System32\odbcad32.exe

- For 64 bits: C:\Windows**SysWOW64**\odbcad32.exe

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- Under **System DSN** click Add...

- Look for MySQL ODBC 3.51 Driver and select it

- Click Finish

- Fill the fields in

- Test the connection

- Click OK

- Repeat this process for all connected databases

- Repeat this process for 32 and 64 bit connector

Edit mch.dbn file

(in the root folder where MCH has been installed)

Lines to edit:
1. mch
2. mysql5
3. 2
4. 2
5. C:\programme files\Mozilla Firefox\firefox.exe

1. DSN (ODBC connection name)
2. Version of MySQL
3. User interface language: 1= Spanish; 2= English; 3= French
4. Database language: leave 2 (English)
5. Path to web browser (optional)

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Edit MCHeng.bat file

(in the root folder where MCH has been installed)

MCH18.exe -DSNmcheng -DefBMCHtablasycampos.def -DefIMensajesMCH.def -I2 -B2

MCH18.exe : name of MCH executable

DSNmcheng: DSN (ODBC connection name), here the ODBC connection is called mcheng

DefBMCHtablasycampos.def and DefIMensajesMCH.def: Definition files do not edit

I2: User interface language (1= Spanish; 2= English; 3= French)

B2: Database language: leave 2 (English)

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Activate new modules (2018)

(in the root folder where MCH has been installed)

The administrator must run and close following .exe, the first time MCH is installed:

- MchSecurity.exe
- MchDefInterface.exe
- MchDefGraf.exe

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- Optional -
Installation of the Apache Server (only needed for MCH web pages)
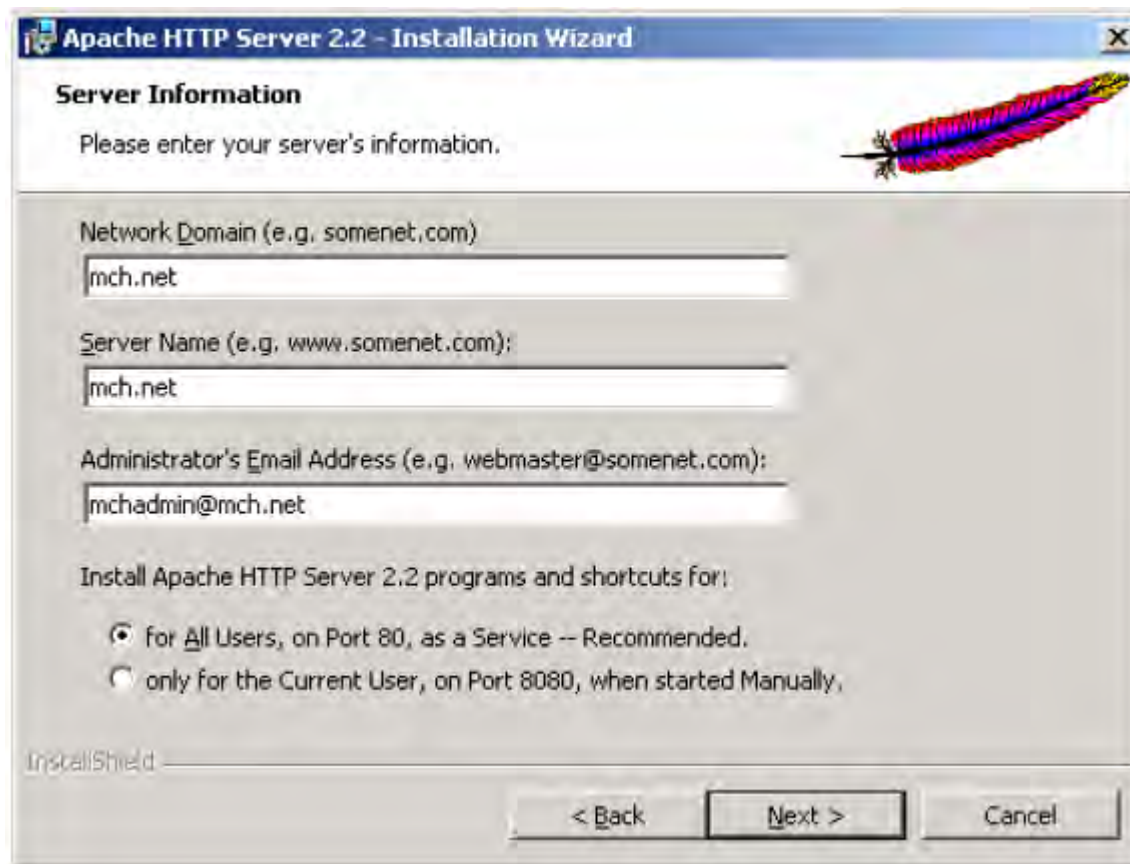
Select: httpd-2.2.11-win32-x86-no_ssl.msi*

* Select the latest version, if it does not work select previous version

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- For local use enter localhost as value
- On a network configuration enter IP address

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Select Custom and click Next
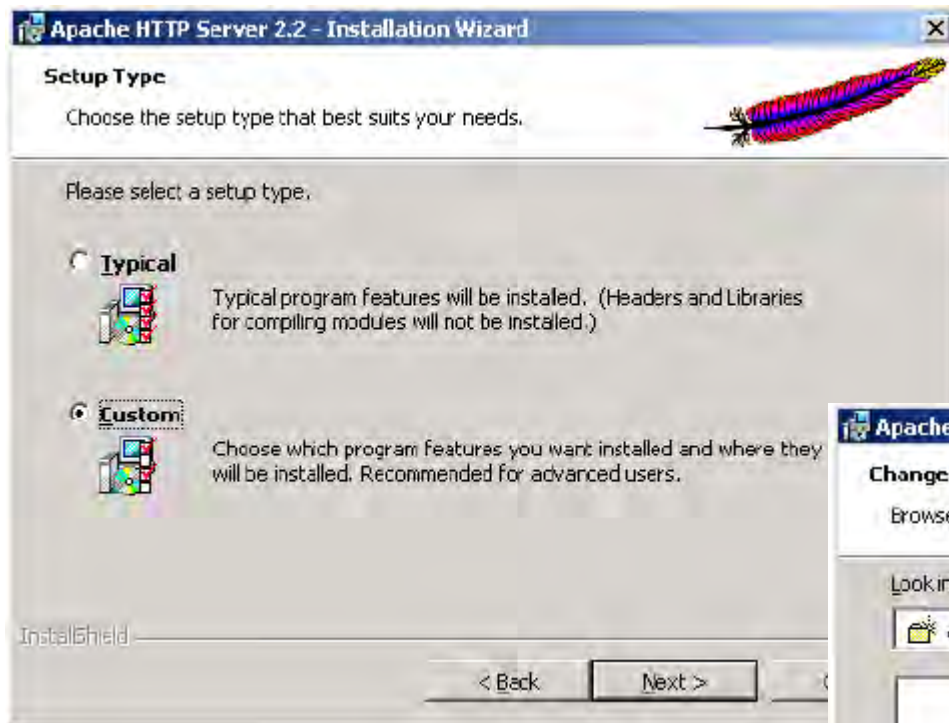
- Save it in the root under C:\Apache\Apache2.2 or directly under C:\Apache
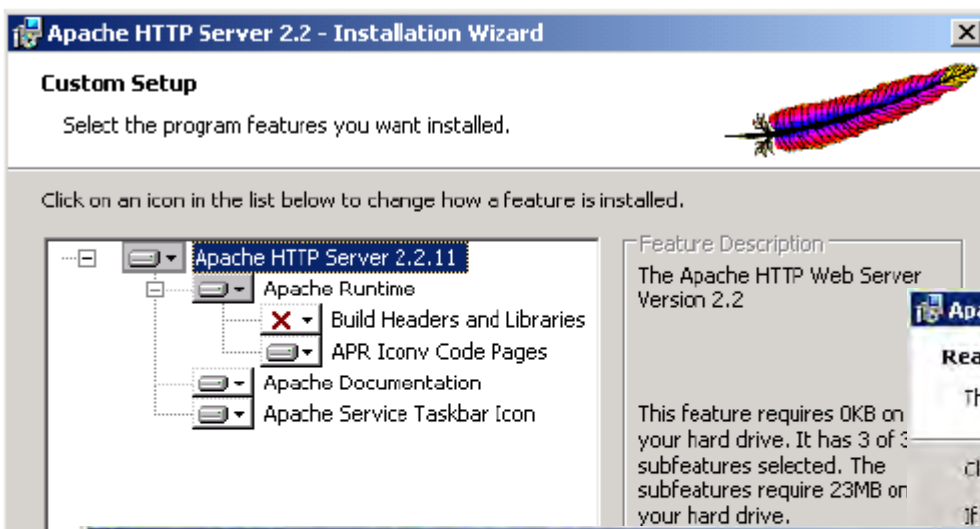
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- Click Next

Click Install
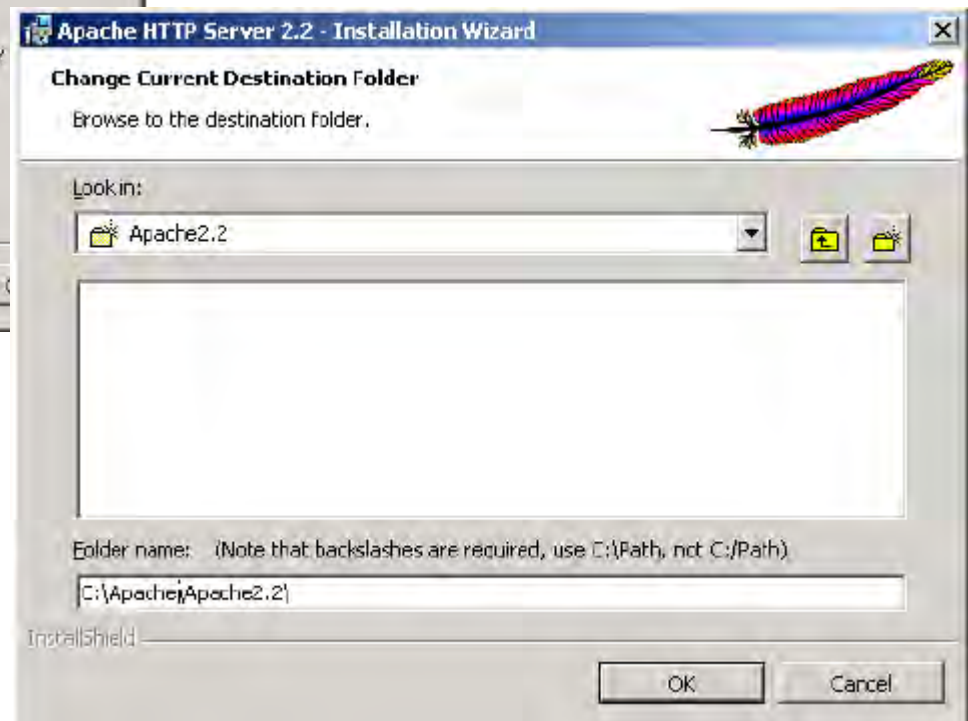
- Click Finish

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Configuration of Apache Server

- Copy the files cgi-binmch, htdocsmch, graficosint from the folder pagweb into Apache → Apache 2.2

- Check that the files "*.dbn" within Apache\cgi-binmch folder are pointing to the correct ODBC Connection

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Edit Apache configuration file
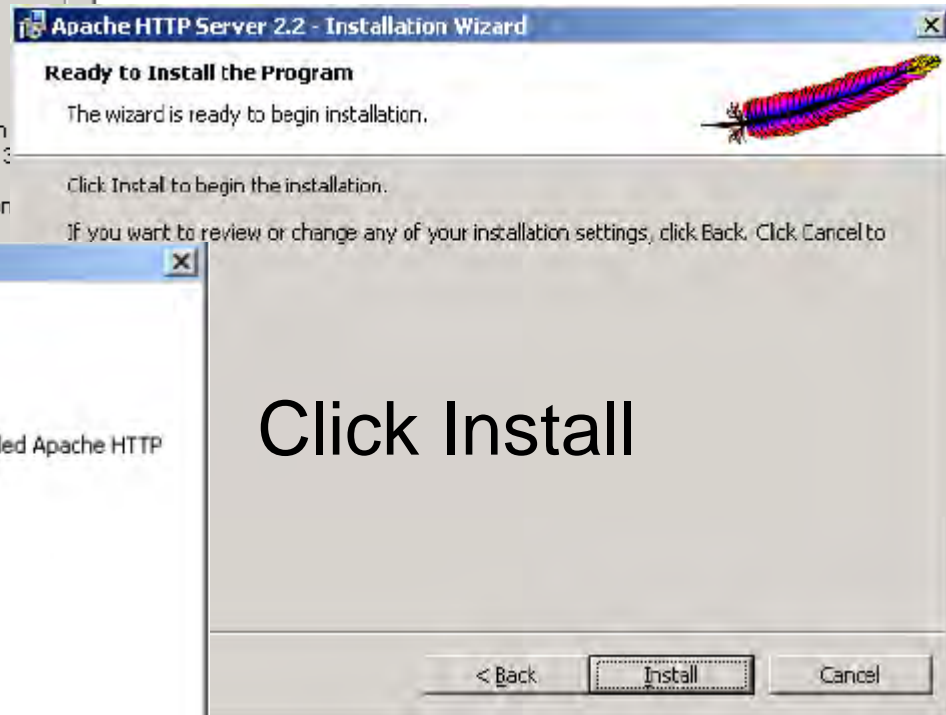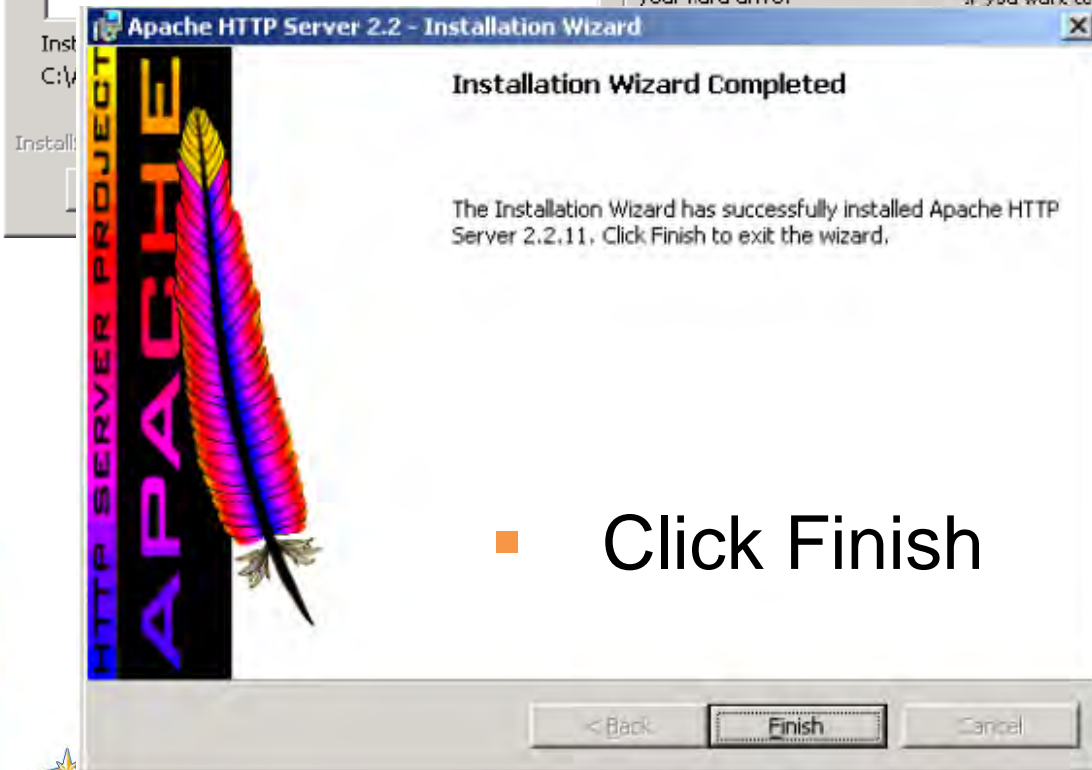
- Under : C:\Apache\Apache2.2\conf\httpd.conf
- Compare: C:\Apache\Apache2.2\conf\original\httpd.conf

And

- C:\Apache\Apache2.2\conf\httpd.conf
- Copy c:\mch\midas.dll in the cgi-binmch folder
- The maps that have to be displayed on the website should be copied in the cgi-binmch folder under : C:\Apache\Apache2.2\cgi-binmch

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- Don't forget to reactivate your antivirus and firewall

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Check list for the installation and configuration of Apache web server and website interface of MCH

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- ✓ Check that RunTimePlus /dBasePlusRuntimeEngine1703_EN.exe is properly installed (use dBasePlusRuntimeEngine1703_ES.exe if the operating system is in Spanish)

- ✓ Install Apache (httpd-2.2.11-win32-x86-no_ssl.msi)(or the corresponding version of your system)

- ✓ Copy cgi-binmch, htdocsmch, graficosint folders from the pageweb folder in the installation disc to the root of Apache (C:\\Apache)

- ✓ Verify that midas.dll is in the "Apache\cg-binmch" folder if not copy it from c:\\mch and past it in "Apache\cg-binmch"

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✓ Configure the httpd.conf under C:\Apache\Apache2.2\conf\httpd.conf

➢ DocumentRoot "C:/Apache/htdocsmch" instead of htdocs
➢ <Directory "C:/Apache/htdocsmch"> instead of htdocs
➢ Alias /icons/ "C:/Apache/icons/"
➢ Alias /mchg/ "C:/Apache/cgi-binmch/"
➢ Alias /graficosint/ "C:/Apache/graficosint/"
➢ ScriptAlias /cgi-bin/ "C:/Apache/cgi-bin/"
➢ ScriptAlias /cgibinmch/ "C:/Apache/cgi-binmch/"
➢ <Directory "C:/Apache/graficosint/">
        AllowOverride None
        Options None
        Order allow,deny
        Allow from all
    </Directory>
➢ <Directory "C:/Apache/cgi-binmch/">
        AllowOverride None
        Options None
        Order allow,deny
        Allow from all
    </Directory>

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- ✓ Configure mch.dbn in cgi-binmch folder
- ✓ Configure mchWeb.dbn in cgi-binmch folder
- ✓ Check that the port 80 is not blocked by firewall (Windows or antivirus firewall)

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Thank you
Merci

https://www.wmo.int/chy/communities/

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